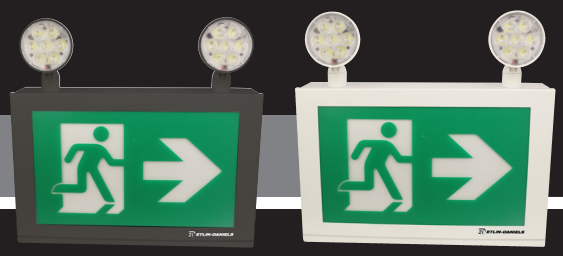
ETLIN-DANIELS

INSTALLION - EC3144/ EC3320 / EC3500
LED RUNNING MAN BATTERY COMBO



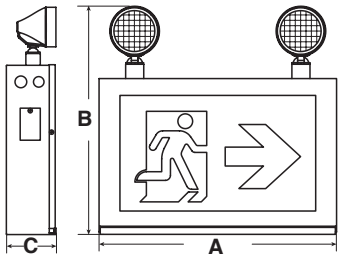
SAVE THESE INSTRUCTIONS - READ ALL INSTRUCTIONS CAREFULLY

CAN ICES-005 (B) NMB-005 (B)

IMPORTANT SAFEGUARDS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

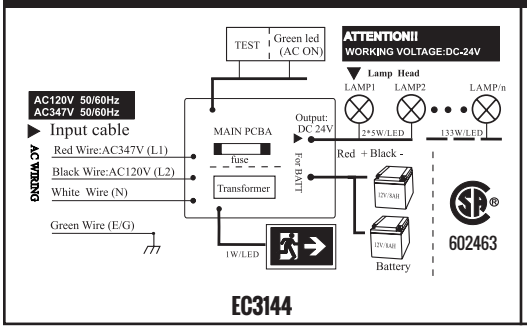
- Review the diagrams thoroughly before beginning.
- All electrical connections must be in accordance with local codes, ordinances and the National Electric Code.
- All unused wires must be capped to prevent shorting.
- Disconnect power at fuse or circuit breaker before installing or servicing.
- Do not use outdoors.
- Do not mount in hazardous locations or near gas or electric heaters.
- Do not let power cords touch hot surfaces.
- Equipment should be mounted in locations and at heights where it will not be subject to tampering by unauthorized personnel.
- The use of accessory equipment is not recommended by the manufacturer.
- Do not use this equipment other than intended use.
- All servicing should be performed by qualified personnel only.
- Allow battery to charge for 50hrs before first use.



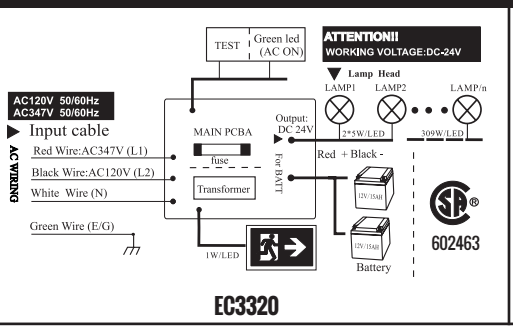
SERIES	DIMENSIONS		
	A	B	C
EC3144	13.94" 354 mm	13.39" 340 mm	3.11" 79 mm
EC3320	16.38" 416 mm	16.77" 426 mm	3.66" 93 mm
EC3500	15.32" 389 mm	17.04" 433 mm	5.51" 140 mm

SERIES	WORKING VOLTAGE	OUTPUT VOLTAGE	HEADS	INPUT WATTAGE	WATTAGE	REMOTE CAPABLE	WATTAGE CAPACITY				BATTERY TYPE & CAPACITY
							30 MIN	60 MIN	90 MIN	120 MIN	
EC3144	120V/347V, 50Hz / 60Hz	24V	2 x 5W	5 - 35W	144W	134W	142W	71W	47W	35W	LEAD ACID 12V 8AH*2
							50 Hours Charging Time				
EC3320				5 - 82W	320W	310W	318W	159W	106W	79W	LEAD ACID 12V 15AH*2
							50 Hours Charging Time				
EC3500				5 - 82W	500W	490W	498W	249W	166W	124W	LEAD ACID 12V 26AH*2
							50 Hours Charging Time				

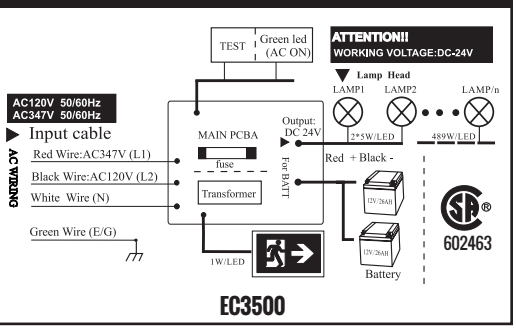
WIRING DIAGRAM



EC3144



EC3320



EC3500

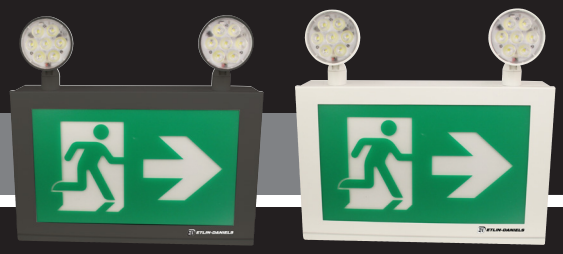
OPERATION

1. To Test, depress the TEST Switch. Charge indicator will go out and the DC lamps will come on.
2. Release the TEST Switch. DC lamps will be extinguished, and the charge indicator will come on.
3 .A bright charge LED indicator light indicates a high charge rate. After the battery has reached fullcharge, the indicator light will go out. Under normal operation the high charge indicator will turn on and off intermittently while the unit is in standby mode (regular AC is present) since the charge rate will vary in order to maintain an optimal battery performance.

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ETLIN-DANIELS

INSTALLION - EC3144 / EC3320 / EC3500
LED RUNNING MAN BATTERY COMBO



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FIG. 1

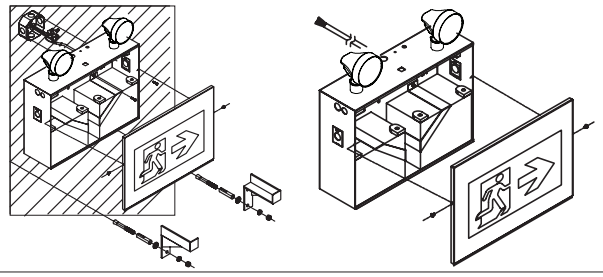


FIG. 2

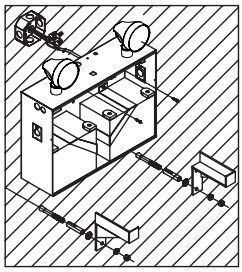


FIG. 3

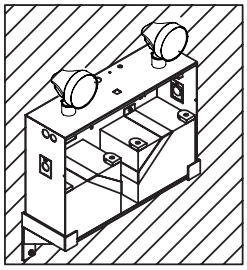


FIG. 4

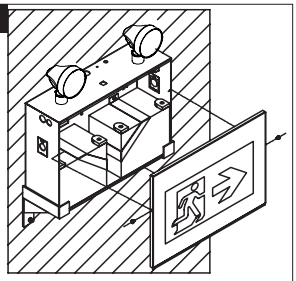


FIG. 5

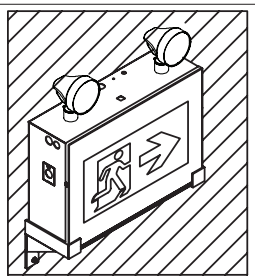
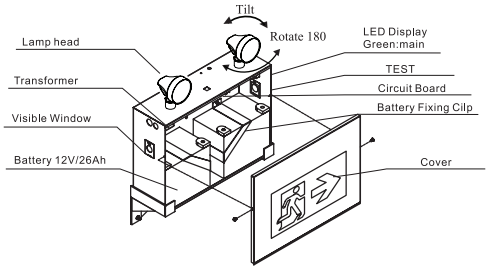


FIG. 5



HARDWIRED INSTALLATION

1. Extend un-switched 50 hour AC supply of rated voltage to a junction box (supplied by others) installed in accordance with all applicable codes and standards. Leave a minimum of 8 inches of slack on the wire. This circuit should NOT be energized/live at this time.
2. Open the unit by unscrewing the cover screws on the sides of the unit. The front cover can then be removed.
3. Unit is supplied with universal spider knockouts and keyhole slots stamped into the back of the cabinet. Knock out the appropriate hole(s) and bring wires through the hole(s) into the cabinet.
4. Mount the unit securely into place. Do not rely on the electrical box as the only support for the unit. Line Cord Installation shown above for further details.
5. Make proper wiring connections between the AC supply and the unit's transformer: Red-Line:AC 347V, Black -Line AC120 Volts: White-Line:Neutral ;Green - Line Earth;
Insulate unused wire! Connect ground to supplied green ground wire in accordance with local codes. Reassemble all wire connections and connectors.

MAINTENANCE

1. Code requires that the equipment be tested every 30 days for 30 seconds, and that written records be maintained for all test results and repairs. Further, the equipment is to be tested once a year for the required duration as per Code. The battery is to be replaced or the equipment repaired whenever the equipment fails to operate as intended during the duration test. The manufacturer strongly recommends compliance with all Code requirements.
2. Clean lenses on a regular basis to provide maximum light distribution in case of an emergency.

NOTE: The servicing of any parts should be performed by qualified service personnel only. The use of replacement parts not furnished by the manufacturer, may cause equipment failure and will void the warranty.

TROUBLESHOOTING: EMERGENCY LAMPS DO NOT COME ON AT ALL PILOT LIGHT IS OUT BEFORE TEST.

1. Check AC supply - be sure unit has 50 hour AC supply (un-switched).
2. AC supply is OK, and indicator light is out, replace PC Board Assembly.Pilot Light is on before test.
3. Either the output is shorted or overloaded, or the battery is not connected.
4. Battery is severely discharged. Allow 50 hours for recharge and then retest.

NOTE: This could be the result of a switched AC supply to the unit (which has been turned off at some point), a battery with a shorted cell, an old battery or a battery which has been discharged due to a long power outage and is not yet fully recharged.

CAUTION! - Failure to insulate unused wire may result in a shock hazard or unsafe condition as well as well as equipment failure.

6. Batteries on larger units may be shipped separately to avoid damage in shipping. Install batteries into the cabinet and complete the appropriate battery connections.
7. Batteries already installed in the cabinet must be connected to the circuit board.
8. Secure all internal wires.
9. Replace cover and secure cover screws.
10. Turn on AC line voltage supply.
11. If the unit is supplied with a line cord, connect the line cord plug into the appropriate receptacle previously installed.
12. If unit is complete with lamp heads, position the lamp heads to provide best lighting distribution by loosening head set screws to adjust angle and swivel. Manually rotate or turn head(s) to the desired position, then tighten set screws to lock position.

EMERGENCY LAMPS COME ON DIM WHEN TEST BUTTON IS PRESSED

Battery discharged - permit unit to charge for 50 hours and then retest. If lamps are still dim, check charger for proper function. If charger functions correctly, replace battery.

EMERGENCY LAMPS COME ON WHEN BATTERY IS FIRST CONNECTED

Battery may be connected in reverse polarity. Check connections. Connect Positive lead to Positive battery terminal and Negative lead to Negative battery terminal. The lamps should then turn off and the charge indicator should light when AC power is applied.

EMERGENCY LAMPS COME ON DIM WHEN AC POWER IS ON

Check supply voltage and AC connections. This emergency light is provided with brownout protection. The AC supply must be at least 80% of nominal (120V on a 347V line) for equipment to function normally.
At lower voltages the emergency lamps will begin to glow dimly until the source voltage drops below the full turn-on point.
NOTE: This condition may also be caused by incorrectly connecting a 120 Volt supply line to the 347-Volt transformer lead.

NOTHING HAPPENS WHEN THE UNIT IS ENERGIZED

Some models have a standard time delay built into the design of the charger board. Please allow 15 minutes with AC current connected. At this point the LED AC-ON and CHARGE lights should illuminate.

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